

# Yifeng Ding

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## Research Interests

My research interest lies in Large Language Models (LLMs) for Software Engineering. Currently, I focus on using LLMs to improve automated debugging techniques, including Automated Program Repair (APR) and Fault Localization (FL). One of my recent LLM4APR works, FitRepair [2], has been published in ASE'23.

My ongoing works include improving LLM's **instruction-following** ability for automated debugging, and augmenting LLMs with *retrieval* for **project-level debugging** tasks.

## Education

Since 2022 **University of Illinois at Urbana-Champaign (UIUC)**,  
Ph.D. student in Computer Science,  
Advisor: [Prof. Lingming Zhang](#)

2018–2022 **Tsinghua University**,  
B.S. in Software Engineering,  
Double Major: B.S. in Business Administration

## Publications

- [1] Yuxiang Wei, Zhe Wang, Jiawei Liu, **Yifeng Ding**, and Lingming Zhang. “Magicoder: Source Code Is All You Need”. In: *arXiv*. [\[preprint\]](#).
- [2] Chunqiu Steven Xia, **Yifeng Ding**, and Lingming Zhang. “The Plastic Surgery Hypothesis in the Era of Large Language Models”. In: *38th IEEE/ACM International Conference on Automated Software Engineering (ASE 2023)*. [\[paper\]](#).
- [3] Quan Zhang, Yongqiang Tian, **Yifeng Ding**, Shanshan Li, Chengnian Sun, Yu Jiang, and Jianguang Sun. “CoopHance: Cooperative Enhancement for Robustness of Deep Learning Systems”. In: *32nd ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2023)*. [\[paper\]](#).
- [4] Quan Zhang, **Yifeng Ding**, Yongqiang Tian, Jianmin Guo, Min Yuan, and Yu Jiang. “Ad-vDoor: Adversarial Backdoor Attack of Deep Learning System”. In: *30th ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2021)*. [\[paper\]](#).

## Academic Service

Organizing Committee The First International Workshop on Large Language Models for Code ([LLM4Code 2024](#)), co-located with ICSE 2024

## Talk

- [1] Uber Programming Systems Team: Equipping Large Language Models with Domain-Specific Knowledge for Automated Program Repair

## Honors & Awards

2021 **Research Excellence Scholarship**, Tsinghua University  
2019 **Academic Excellence Scholarship**, Tsinghua University